

Application Serial No. 10/504,824
Amendment Dated July 26, 2006
Reply to Office Action Dated February 27, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) A floating caliper disk brake comprising:

a support bracket; and

a caliper body supported by the support bracket in such a manner that it can slide along an axis transverse to a disk plane, said support bracket having a securing means for securing the support bracket to the suspension of a vehicle[[,]] and support means suitable for slidably supporting the caliper body,

wherein said support bracket ~~comprises~~includes an inner wall facing the inside of the vehicle and an outer wall opposite the inner wall and spaced therefrom,

wherein the inner wall and the outer wall being fixedly joined and arranged one on each side of a disk plane which constitutes the plane in which the brake disk lies, delimiting a space for accommodating a portion of a brake disk,

wherein ~~each of the inner wall and the outer wall~~ forms two pad seats and the outer wall forms two pad seats, each pad seat of said four pad seats being suitable for accommodating a pad and each pad seat of said four pad seats having two stop surfaces, which are substantially opposite one another, for stopping the pad in two opposite directions.

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2. (previously presented) A disk brake according to claim 1, wherein said support bracket further comprises an inner cross member and an outer cross member which are connected to one another by two substantially U-shaped lateral yokes and a substantially U-shaped central yoke arranged between the lateral yokes, wherein the lateral yokes and the central yoke lie in planes substantially transverse to the disk plane and have a base which intersects the disk plane, and also an inner wing connected to the inner cross member and an outer wing connected to the outer cross member, wherein the inner wings of the lateral yokes and of the central yoke and the inner cross member constitute the inner wall and the outer wings of the lateral yokes and of the central yoke and the outer cross member constitute the outer wall.

3. (previously presented) A disk brake according to claim 2, wherein the central yoke is arranged half-way between the lateral yokes.

4. (currently amended) A disk brake according to claim 2, wherein the lateral yokes and the central yoke lie in planes which are substantially radial with respect to a disk axis constituting the axis of rotation of the brake disk.

5. (previously presented) A disk brake according to claim 2, wherein the stop surfaces opposite each pad seat are formed respectively by a wing of the central yoke and a wing of one of the lateral yokes of the same wall.

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6. (previously presented) A disk brake according to claim 2, wherein the cross members are connected to those ends of the wings of the yokes which are remote from the base.

7. (previously presented) A disk brake according to claim 2, wherein the cross members are substantially parallel with the disk plane.

8. (previously presented) A disk brake according to claim 2, wherein the securing means further comprise two securing holes which are suitable for receiving corresponding securing screws and which are arranged in the inner cross member at the location of the lateral yokes.

9. (previously presented) A disk brake according to claim 2, wherein the support means further comprise two lateral holes, formed in the inner wings of the lateral yokes, and a central hole, formed in the outer wing of the central yoke, the lateral holes and the central hole being suitable for receiving slide pins for the sliding support of the sliding caliper body.

10. (previously presented) A disk brake according to claim 2, wherein the cross members are substantially arc-shaped and extend substantially along circumferences around the disk axis.

11. (previously presented) A disk brake according to claim 2, further comprising two

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openings disposed respectively between the central yoke and the lateral yokes.

12. (withdrawn) A disk brake according to claim 1 wherein said caliper body supported at three points by the support bracket in such a manner that it can slide along an axis transverse to the disk plane.

13. (withdrawn) A disk brake according to claim 12, wherein the caliper body further comprises an inner portion facing the inside of the vehicle and an opposite outer portion which are fixedly joined to one another and spaced in such a manner as to enable the support bracket to be positioned between them, wherein the inner portion is provided with four piston seats for accommodating hydraulic pistons for acting on the pads arranged on the inner wall of the support bracket, and an outer portion is provided with suitable reaction surfaces for checking the thrust transmitted by the pads arranged on the outer wall of the support bracket.

14. (withdrawn) A disk brake according to claim 13, wherein two hydraulic pistons are associated with each of the two pads arranged on the inner wall of the support bracket.

15. (withdrawn) A disk brake according to claim 13, wherein the four piston seats are arranged along an arc of a circle.

16. (withdrawn) A disk brake according to claim 13, wherein the inner portion and

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the outer portion of the sliding caliper body are connected to one another by two lateral bridge elements which are arranged at the location of the opposite ends of the portions and by a central bridge element which is arranged substantially half-way between the lateral bridge elements, wherein the inner portion and the outer portion, together with the lateral bridge elements and the central bridge element, delimit two openings disposed at the location of the openings of the support bracket.

17. (withdrawn) A disk brake according to claim 13, wherein said outer portion further comprises, at the location of the central bridge element, a central hole for receiving a central slide pin and the inner portion comprises, in the vicinity of both of the lateral bridge elements, a lateral hole for receiving two lateral slide pins, in order to form the three-point sliding support.

18. (withdrawn) A disk brake according to claim 17, wherein a damping element is interposed between the holes and the slide pins.

19. (new) A disk brake according to claim 1, wherein said inner wall and outer wall of said support bracket are connected to one another by two substantially U-shaped lateral yokes and a substantially U-shaped central yoke arranged between the lateral yokes.

20. (new) A disk brake according to claim 1, wherein the two opposite stop surfaces

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of each pad seat of said four pad seats are formed respectively by a wing of the central yoke and
a wing of one of the lateral yokes of the same wall of said support bracket.